

**STATE OF
THE PLANET**
A special series



**TRAGEDY OF
THE COMMONS?**
A special issue

In the 12 December 2003 issue *Science*, we round out our recent coverage Earth's resources and their management with a [special issue](#) -- nine Review and Viewpoint articles that commemorate the anniversary of the 1968 publication of the late Garrett Hardin's classic essay, "[The Tragedy of the Commons](#)," and take a look at trends in the management of common resources in the 35 years since the essay's publication. We've also put together a special collection of [online resources](#), including the links to the original essay and some of the subsequent scientific discussion it engendered, as well as pointers to Web sites that provide additional context.

For additional coverage of the issues facing Planet Earth over the next 50 years, be sure to check out our four-week "[State of the Planet](#)" series published in the issues running from 14 November to 5 December. The series includes eight Viewpoint pieces on topics ranging from population to energy to fisheries to global change, with each article supplemented by a collection of related Web resources and articles.

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TRAGEDY OF THE COMMONS?

A special issue

Special Issue Contents

EDITORIAL AND INTRODUCTION

Editorial:

Sustainability and the Commons

Donald Kennedy

Science **302**, 1861 (2003)

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Special Issue Introduction:

Where Do We Go from Here?

Andrew Sugden, Caroline Ash, Brooks Hanson,
Jesse Smith

Science **302**, 1906 (2003)

[\[Full text\]](#)

REVIEW

The Struggle to Govern the Commons

Thomas Dietz, Elinor Ostrom, and Paul C. Stern

Science **302**, 1907-1912 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

VIEWPOINTS

Social Capital and the Collective Management of Resources

Jules Pretty

Science **302**, 1912-1915 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

Managing Tragedies: Understanding Conflict over Common Pool Resources

W. M. Adams, Dan Brockington, Jane Dyson, and
Bhaskar Vira

Science **302**, 1915-1917 (2003)

Global Food Security: Challenges and Policies

Mark W. Rosegrant and Sarah A. Cline

Science **302**, 1917-1919 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

New Visions for Addressing Sustainability

A. J. McMichael, C. D. Butler, and Carl Folke

Science **302**, 1919-1921 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

The Burden of Chronic Disease

C. G. Nicholas Mascie-Taylor and Enamul Karim

Science **302**, 1921-1923 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

The Challenge of Long-Term Climate Change

K. Hasselmann *et al.*

Science **302**, 1923-1925 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

Climate Change: The Political Situation

Robert T. Watson

Science **302**, 1925-1926 (2003)

[\[Full text\]](#)

Tales from a Troubled Marriage: Science and Law in Environmental Policy

Oliver Houck

Science **302**, 1926-1928 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

[\[Abstract\]](#) [\[Full text\]](#)

Web Resources

To complement *Science's* "Tragedy of the Commons?" special issue, we've put together a [special set of online resources](#), including Garrett Hardin's original 1968 article and some of the feedback it generated, other *Science* publications by Hardin, articles illustrating how the "commons" metaphor has informed other areas of scientific inquiry, and links to selected other Web sites that provide context for some of the themes of the special issue. Go to www.sciencemag.org/sciext/sotp/commons.shtml.

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14 November: Population and Biodiversity

Series Introduction:

The Shape We're In

H. Jesse Smith

Science **302**, 1171 (2003)

[\[Full text\]](#)

Prospects for Biodiversity

Martin Jenkins

Science **302**, 1175 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

Human Population: The Next Half Century

Joel E. Cohen

Science **302**, 1172 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

21 November: Fisheries, Soils, and Food Security

Tropical Soils and Food Security: The Next 50 Years

M. A. Stocking

Science **302**, 1356-1359 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

The Future for Fisheries

Daniel Pauly *et al.*

Science **302**, 1359-1361 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

28 November: Freshwater Resources and the Energy Picture

Global Freshwater Resources: Soft-Path Solutions for the 21st Century

Peter H. Gleick

Science **302**, 1524-1527 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

Energy Resources and Global Development

Jeffrey Chow, Raymond J. Kopp, Paul R. Portney

Science **302**, 1528-1531 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

5 December: Air Quality and Climate Change

Global Air Quality and Pollution

Hajime Akimoto

Science **302**, 1716-1719 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

Modern Global Climate Change

Thomas R. Karl and Kevin E. Trenberth

Science **302**, 1719-1723 (2003)

[\[Abstract\]](#) [\[Full text\]](#) [\[Web resources\]](#)

The full text of the articles in these special series is available to individual and institutional subscribers to Science, or on a [pay-per-article](#) basis. Interested in your own subscription? [Become a member of AAAS](#), the Science Society, and receive a full year of Science plus a wealth of other member benefits to enhance your scientific life and career.